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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/801,693		03/17/2004	Toshikazu Itakura	11-234	1884
23400	7590	02/07/2005		EXAMINER	
POSZ & F			KWOK, HELEN C		
SUITE 10	11250 ROGER BACON DRIVE SUITE 10				PAPER NUMBER
RESTON,	VA 2019	90	2856		
				DATE MAILED: 02/07/2004	ξ.

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/801,693	ITAKURA, TOSHIKAZU				
Office Action Summary	Examiner	Art Unit				
	Helen C. Kwok	2856				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	66(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ely filed will be considered timely. the mailing date of this communication. 0 (35 U.S.C. & 133).				
Status						
1) Responsive to communication(s) filed on						
· <u> </u>	<i>,</i> —					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4) ☐ Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-11 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive I (PCT Rule 17.2(a)).	on No d in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 06/22/04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Objections

2. Claims 3 and 5-11 are objected to because of the following informalities. Appropriate correction is required.

In claim 3, line 6, the word "squire" should be changed to – square --.

In claim 5, line 3, the phrase "the same substrate" should be changed to – a same substrate --.

In claim 7, line 7, the word "squire" should be changed to – square --. In line 9, the word – quantities – should be inserted after the word "physical".

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 7 and 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 7, line 4, the phrase "the three substrates" is vague and lacks antecedent basis. Which substrates are being referred to - the fixed substrates claimed in claim 7 or the movable substrate claimed in claim 7 or the substrate as claimed in claim 5? Please clarify. In lines 6-7, the phrase "the first and second capacitors" lacks antecedent basis.

In claim 8, line 3, the phrase "the first and second capacitors" lacks antecedent basis. In line 5, the phrase "the first and second capacitors" lacks antecedent basis.

Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

6. Claims 1-11 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-7 of U.S. Patent 6,668,614 (Itakura) in view of either U.S. Patent 6,257,061 (Nonoyama et al.) or U.S. Patent No. 6.483,322 (Aoyama et al.).

Itakura claims a plurality of sensing units for sensing a physical quantity to output a voltage signal depending on the sensed physical quantity; a plurality of processor; and a controller to control the plurality of processors at predetermined different timings shifted from each other. Although the conflicting claims are not identical since Itakura does not explicitly claim the processors for sampling and holding the voltage signal since, they are not patentably distinct from each other because the references,

Nonoyama et al. and Aoyama et al., teach and suggest a processor having a sample and hold circuit. It would have been obvious to a person of ordinary skill in the art at the time of invention to have readily recognize the advantages and desirability of employing a sample and hold circuit as suggested and taught by Nonoyama et al. and Aoyama et al. to the device of Itakura to periodically sample the voltage signal and to hold every sample for a given time interval and to output the sample wherein the voltage signal is different between measuring modes or periods.

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With regards to claims 2-11, the claimed features/elements (i.e. a C/V converter, fixed electrodes, movable electrode, driving square wave signals) in these claims are further claimed in Itakura or suggested or taught in the references of Nonoyama et al. and Aoyama et al.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The references cited are related to sensor including a sample and hold circuit, a C/V converter and a controller.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Helen C. Kwok whose telephone number is (571) 272-2197. The examiner can normally be reached on 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron E. Williams can be reached on (571) 272-2208. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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hck January 27, 2005